

aurachin B dehydrogenase

Cat. No. EXWM-0314 Lot. No. (See product label)

Introduction	
Description	The enzyme from the bacterium Stigmatella aurantiaca catalyses the final step in the conversion of aurachin C to aurachin B. In vivo the enzyme catalyses the reduction of 4-hydroxy-2-methyl-3-oxo-4-[(2E,6E)-farnesyl]-3,4-dihydroquinoline-1- oxide to form 2-methyl-1-oxo-4-[(2E,6E)-farnesyl]-3,4-dihydroquinoline-3,4-diol (note that the reactions written above proceed from right to left), which then undergoes a spontaneous dehydration to form aurachin B. AuaH
Product Information	
Form	Liquid or lyophilized powder
EC Number	EC 1.1.1.394
Reaction	aurachin B + NAD+ + H2O = 4-hydroxy-2-methyl-3-oxo-4-[(2E,6E)-farnesyl]-3,4- dihydroquinoline 1-oxide + NADH + H+ (overall reaction); (1a) 3,4-dihydroxy-2- methy-4-[(2E,6E)-farnesyl]-3,4-dihydroquinoline 1-oxide + NAD+ = 4-hydroxy-2- methyl-3-oxo-4-[(2E,6E)-farnesyl]-3,4-dihydroquinoline 1-oxide + NADH + H+; (1b) aurachin B + H2O = 3,4-dihydroxy-2-methyl-4-[(2E,6E)-farnesyl]-3,4- dihydroquinoline 1-oxide (spontaneous)
Notes	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.
Storage and Shipping Information	
Storage	Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.